

Prepared RLT 1/11/2017

January 11, 2017

Report for Sac and Fox Remedial Activities and Excavation Update

Current Excavation

Tank 2 middle tank removal complete. Excavation of additional gravel back fill will continue in preparation for new tank installation.

Tel: 913-461-5985

Excavated gravel back fill not remaining to date in pit is stock piled on a plastic berm to retain any accumulated liquid during storage for disposal.

Total excavated gravel backfill in containment now is approximately 450 to 500 ton.

Remaining excavated gravel to be removed approximately 100 to 150 ton.

The intent was to reuse this back fill should the Photo Ionization Detector (PID) field screenings reflect the gravel is not impacted above 100 ppm Total Petroleum Hydrocarbons (TPH) or beyond Tier 2 Non-Residential Default Target Levels (NRDTL) if full analysis is deemed appropriate to make that determination.

At the time of this writing analytical results are available from stock piled back fill gravel from the tank pit sitting in outdoor containment and the results indicate this material may **NOT** be reused due to readings in **excess** of Tier 2 (NRDTL).

Tank Pit sampling is complete and samples were delivered to Pace Analytical for full results January 11, 2017 evening. Results will be available in approximately 10 days.

PID Readings

Target factor of 20 ppm was our original screening factor based on a base reading at the edge of the property. However, after further discussion it was determined 100 ppm would be a more appropriate screening factor and more closely relate to an actual sample analytic result. However, the actual results of the gravel samples did not bear out this assumption as the results indicate below.



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Analytical Results

Table 1.0 Soil Analytical Results Sac and Fox Truck Stop 1346 US 75 Highway Powhatten, KS

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| Sample Date | Sample ID | Field Screening (ppm) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Zylenee (mg/kg) | Total BTEX | Naphthalene (mg/kg) | MtBE (mg/kg) | TPH LRH (≥C5 - <c9) (mg="" kg)<="" td=""><td>TPH MRH (≥C9 - <c19) (mg/kg)</c19) </td><td>TPH HRH (≥19 - <c35) (mg="" kg)<="" td=""><td>Analytical Methods</td></c35)></td></c9)> | TPH MRH (≥C9 - <c19) (mg/kg)</c19) | TPH HRH (≥19 - <c35) (mg="" kg)<="" td=""><td>Analytical Methods</td></c35)> | Analytical Methods |
|--|---------------------------------------|-----------------------------|--------------------|--------------------|----------------------|-----------------------------|---------------|------------------------|-----------------|--|--|--|---------------------|
| Tier 2 RSK, Soil Pathway - Non-Residential | | | 28.2 | 29,800 | 145 | 1,410 | - | 64.7 | 1,050 | 950 | 350 | 27,500 | LR/MR 8015C HR 8260 |
| Tier 2 RSK, Soil to Ground Water - Non-Residential | | | 0.168 | 51.2 | 65.6 | 809 | - | 0.659 | 1.66 | 150 | 150 | 13,000 | LR/MR 8015C HR 8260 |
| 1/4/2017 | Grvl SL Fill - 01 | 0.3 | ND | ND | ND | ND | - | 0.87 | ND | ND | 61.8 | 24.1 | 8260/OA1 |
| 1/4/2017 | Grvl SL Fill - 02 | 59.5 | 0.0925 | 0.804 | 0.313 | 19 | - | 3.53 | ND | ND | 280 | 42.4 | 8260/OA1 |
| 1/10/2017 | West Wall (Near West Dispenser) | 95.7 | Pndg | Pndg | Pndg | Pndg | - | Pndg | Pndg | Pndg | Pndg | Pndg | |
| 1/10/2017 | North Wall (NE C of Excavation) | 2,751 | Pndg | Pndg | Pndg | Pndg | - | Pndg | Pndg | Pndg | Pndg | Pndg | |
| 1/10/2017 | Bottom 1 (Center of Failed Tank) | 36.7 | Pndg | Pndg | Pndg | Pndg | - | Pndg | Pndg | Pndg | Pndg | Pndg | |
| 1/10/2017 | Bottom 2 (East end of Failed Tank) | 3,657 | Pndg | Pndg | Pndg | Pndg | - | Pndg | Pndg | Pndg | Pndg | Pndg | |

Field screening samples analyzed in the field with a photoionization detector

TPH - Total Petroleum Hydrocarbons

LRH - Low Range Hydrocarbons

MRH - Medium Range Hydrocarbons

HRH - High Range Hydrocarbons

ND - Non Detect

NM - Not Measured

PNDG - Analytical Pending at Lab Values in Bold Exceed Tier 2 RSKs

RSK - Risk-Based Standards for Kansas as Listed in the RSK Policy #BER-041

Dated September 1, 2015



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Recommendations

Based on the actual analytical results it appears that back fill rock lower in the pile contains heavier contamination as indicated by the results of Gravel SL – Fill 2.

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It may be possible to stir this gravel and allow for material currently covered by top layers to be exposed to the elements and potentially gas off to a level which can be measured by new analytical and found to be under Tier 2 RSK Soil to Ground Water Levels. If MAC Corporation would like to try this, then we would agree and then retest to determine if the levels have been reduced to acceptable parameters.

I know MAC would like to get the new tank delivered and start placement. However, it may take some time for the exposed gravel to come into compliance. That being said, it will also require additional samples adding cost to the project especially if we go for a 2 day turn around. Otherwise the standard turn for lab samples is 7-10 days. However, the added cost for analytical will be miniscule compared to disposing of all that gravel and then having to bring in new gravel.

Regarding the soil to the east of the tank pit. Based solely on the PID readings at this time, it appears soil will be excavated moving east within the existing piping scheme. We will be able to check PID readings as we go along so no more soil will be exposed than necessary.

It is still our contention that regardless of contaminate levels, it would be economically devastating to the truck stop to continue excavation in an easterly direction effectively closing the truck stop portion of the station. I mentioned to Ms. Armbruster that should we find that contaminate levels in that area of the property are above acceptable limits, then we would need to do a cost analysis of closure of the truck stop side for excavation compared to other technologies that may be incorporated to clean up the property while allowing for full operation of the truck stop.

If anyone has comments or concerns, please communicate these and if Robert of MAC could let me know a tentative new schedule and if he can turn that gravel over for a few days then we can plan to get new samples.

Sincerely,

Robert L. Trump